ANALYSIS AND OPTIMIZATION MACHINING PARAMETER BASE ON DIFFERENT TYPE OF MATERIAL IN INCREMENTAL FORMING PROCESS (ALGOR SIMULATION)

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SUPERVISOR'S DECLARATION

I hereby declare that I have checked this project and in my opinion, this project is adequate in terms of scope and quality for the award of the degree of Bachelor of Mechanical Engineering with Manufacturing Engineering.

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Date: NOVEMBER 2009

STUDENT'S DECLARATION

I hereby declare that the work in this project is my own except for quotations and summaries which have been duly acknowledged. The project has not been accepted for any degree and is not concurrently submitted for award of other degree.

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AISI	American Iron & Steel Institute
ASTM	American Society for Testing and Materials
CAM	Computer Aided Manufacturing
CNC	Computer Numerical Control
FE	Finite Element
FEM	Finite Element Model
FLC	Forming Limit Curve
FLD	Forming Limit Diagram
ISF	Incremental Sheet Forming
IF	Incremental Forming
MES	Mechanical Event Simulation
SMI	Small and Medium Industry
SME	Small and Medium Enterprise
SPIF	Single Point Incremental Forming
TPIF	Two Point Incremental Forming
UTS	Ultimate Tensile Stress
Y	Yield Stress

NOMENCLATURE

A	Area
E	Modulus Elasticity
mm	Millimetre
cm	Centimetre
s	Second
v	Velocity
N	Newton
t	Thickness
MPa	Mega Pascal